Claims

Claims 1-10 (Canceled)

11. (Previously Presented) A low viscosity, hot-melt stable adhesive composition, consisting

essentially of:

a) at least one block copolymer, comprising at least two terminal poly(vinyl aromatic)

blocks and at least one central block of randomly copolymerised isoprene/butadiene mixtures

in an isoprene/butadiene weight ratio of from 45/55 to 55/45, having a poly(vinyl aromatic)

content in the range of from 17 wt% to 20 wt%, a total apparent molecular weight in the

range of from 180,000 to 190,000, a content of 1,2-vinyl bonds and/or 3,4 vinyl bonds of at

most 15 wt % in the conjugated diene blocks, and a coupling efficiency in the range of from

63% to 80%, and occurring in a weight proportion of from 40 wt % to 45 wt %, relative to

the weight of the complete composition,

b) an aliphatic/aromatic hydrocarbon tackifying resin, containing less than 16% by weight

of aromatic structure as determined by H-NMR, a differential scanning calorimetry (DSC)

glass transition temperature (Tg) between 30°C and 55°C, and a Ring and Ball softening

point between 85°C and 95°C, in a weight proportion of from 45 to 55 wt %, relative to the

weight of the complete composition,

c) a plasticizer, in a weight proportion of from 5 wt % to 15 wt %, relative to the weight of

the complete composition;

and having a stable hot-melt viscosity of plus or minus 5% of the starting value after 24 hours at 177°C and having a hot-melt viscosity of ≥80 Pa.s at 177°C.

- 12. (Previously Presented) The low viscosity, hot-melt stable adhesive composition of claim 11, wherein the block copolymer component (a) is a S--(I/B)--S block copolymer, wherein S represents a block of polymerised substantially pure styrene and (I/B) represents a randomly copolymerised isoprene/butadiene block.
- 13. (Previously Presented) The low viscosity, hot-melt stable adhesive composition of claim 12, wherein the component (a) block copolymer has an apparent total molecular weight of from 180,000 to 185,000, and a content of 1,2-vinyl bonds and/or 3,4-vinyl bonds, each in a proportion of from 5 to 10 wt % in the conjugated diene blocks.
- 14. (Previously Presented) The low viscosity, hot-melt stable adhesive composition of claim 11, wherein the component (b) has an H-NMR aromatic structure in the range of from 4 wt % to 10 wt %.
- 15. (Previously Presented) The low viscosity, hot-melt stable adhesive composition of claim 11, wherein the component (c) is a mineral oil.
- 16. (Previously Presented) An adhesive tape and label, comprising a carrier having disposed thereon a low viscosity, hot-melt stable adhesive composition, consisting essentially of:

a) at least one block copolymer, comprising at least two terminal poly(vinyl aromatic) blocks and at least one central block of randomly copolymerised isoprene/butadiene mixtures in an isoprene/butadiene weight ratio of from 45/55 to 55/45, having a poly(vinyl aromatic) content in the range of from 17 wt% to 20 wt%, a total apparent molecular weight in the range of from 180,000 to 190,000, a content of 1,2-vinyl bonds and/or 3,4 vinyl bonds of at most 15 wt % in the conjugated diene blocks, and a coupling efficiency in the range of from 63% to 80%, and occurring in a weight proportion of from 40 wt % to 45 wt %, relative to the weight of the complete composition,

- b) an aliphatic/aromatic hydrocarbon tackifying resin, containing less than 16% by weight of aromatic structure as determined by H-NMR, a differential scanning calorimetry (DSC) glass transition temperature (Tg) between 30°C. and 55°C, and a Ring and Ball softening point between 85°C and 95°C, in a weight proportion of from 45 to 55 wt %, relative to the weight of the complete composition,
- c) a plasticizer, in a weight proportion of from 5 wt % to 15 wt %, relative to the weight of the complete composition;

and having a stable hot-melt viscosity of plus or minus 5% of the starting value after 24 hours at 177°C and having a hot-melt viscosity of ≥80 Pa.s at 177°C.

17. (Previously Presented) The adhesive tape and label of claim 16, wherein the block copolymer component (a) is a S--(I/B)--S block copolymer, wherein S represents a block of polymerised substantially pure styrene and (I/B) represents a randomly copolymerised isoprene/butadiene block.

- 18. (Previously Presented) The adhesive tape and label of claim 17, wherein the component (a) block copolymer has an apparent total molecular weight of from 180,000 to 185,000, and a content of 1,2-vinyl bonds and/or 3,4-vinyl bonds, each in a proportion of from 5 to 10 wt % in the conjugated diene blocks.
- 19. (Previously Presented) The adhesive tape and label of claim 16, wherein the component (b) has an H-NMR aromatic structure in the range of from 4 wt % to 10 wt %.
- (Previously Presented) The adhesive tape and label of claim 16, wherein the componentis a mineral oil.
- 21. (Previously Presented) A packaging tape, comprising a carrier having disposed thereon a low viscosity, hot-melt stable adhesive composition, consisting essentially of:
 - a) at least one block copolymer, comprising at least two terminal poly(vinyl aromatic) blocks and at least one central block of randomly copolymerised isoprene/butadiene mixtures in an isoprene/butadiene weight ratio of from 45/55 to 55/45, having a poly(vinyl aromatic) content in the range of from 17 wt% to 20 wt%, a total apparent

molecular weight in the range of from 180,000 to 190,000, a content of 1,2-vinyl bonds and/or 3,4 vinyl bonds of at most 15 wt % in the conjugated diene blocks, and a coupling efficiency in the range of from 63% to 80%, and occurring in a weight proportion of from 40 wt % to 45 wt %, relative to the weight of the complete composition,

- b) an aliphatic/aromatic hydrocarbon tackifying resin, containing less than 16% by weight of aromatic structure as determined by H-NMR, a differential scanning calorimetry (DSC) glass transition temperature (Tg) between 30°C and 55°C, and a Ring and Ball softening point between 85°C and 95°C, in a weight proportion of from 45 to 55 wt %, relative to the weight of the complete composition,
- c) a plasticizer, in a weight proportion of from 5 wt % to 15 wt %, relative to the weight of the complete composition;
 - and having a stable hot-melt viscosity of plus or minus 5% of the starting value after 24 hours at 177°C and having a hot-melt viscosity of ≥80 Pa.s at 177°C.
- 22. (Previously Presented) The packaging tape of claim 21, wherein the block copolymer component (a) is a S--(I/B)--S block copolymer, wherein S represents a block of polymerised substantially pure styrene and (I/B) represents a randomly copolymerised isoprene/butadiene block.

23. (Previously Presented) The packaging tape of claim 22, wherein the component (a) block copolymer has an apparent total molecular weight of from 180,000 to 185,000, and a content of 1,2-vinyl bonds and/or 3,4-vinyl bonds, each in a proportion of from 5 to 10 wt % in the conjugated diene blocks.

- 24. (Previously Presented) The packaging tape of claim 21, wherein the component (b) has an H-NMR aromatic structure in the range of from 4 wt % to 10 wt %.
- 25. (Previously Presented) The packaging tape of claim 21, wherein the component (c) is a mineral oil.
- 26. (Previously Presented) Block copolymers to be used in the low viscosity, hot-melt stable adhesive composition comprising: at least one block copolymer, consisting essentially of: at least two terminal poly(vinyl aromatic) blocks and at least one central block of randomly copolymerised isoprene/butadiene mixtures in an isoprene/butadiene weight ratio of from 45/55 to 55/45, having a poly(vinyl aromatic) content in the range of from 17 wt% to 20 wt%, a total apparent molecular weight in the range of from 180,000 to 190,000, a content of 1,2-vinyl bonds and/or 3,4 vinyl bonds of at most 15 wt % in the conjugated diene blocks, and a coupling efficiency in the range of from 63% to 80%, and occurring in a weight proportion of from 40 wt % to 45 wt %, relative to the weight of the complete composition.
- 27. (Previously Presented) The block copolymers of claim 26, characterized in that they have the structure S--(I/B)--S, wherein S represents a block of polymerised substantially pure styrene

and (I/B) represents a randomly copolymerised isoprene/butadiene block.

28. (Previously Presented) The block copolymers of claim 26, characterized in that they have

an apparent total molecular weight of from 180,000 to 185,000, and a content of 1,2-vinyl bonds

and/or 3,4-vinyl bonds, each in a proportion of from 5 to 10 wt % in the conjugated diene blocks.

29. (Previously Presented) The block copolymers of claim 27, characterized in that they have

an apparent total molecular weight of from 180,000 to 185,000, and a content of 1,2-vinyl bonds

and/or 3,4-vinyl bonds, each in a proportion of from 5 to 10 wt % in the conjugated diene blocks.

30. (Canceled)

31. (Canceled)